

Key West Background Turbidity Field Sheet Station(s) E-KWT03-9

Water and Air Research, Inc.
6821 S.W. Archer Road
Gainesville, Florida 32608
Phone: 352/372-1500

Project: PPB/COE - Key West Background Turbidity
Project Number: 03-7333-03CRF
Field Team Members: EAH MGD
Calibration Date: _____

E-KWT03-_____

Retrieved HYDROLAB # _____ from Station E-KWT03-_____ at _____ hrs on ____/____/03.
Downloaded File: E-KWT03-_____ Checked file content: Y or N Backed up file: Y or N

HYDROLAB # _____ Deployed at Station E-KWT03-_____ at _____ hrs on ____/____/03.

<u>Turbidity</u> <u>Calibration</u>	Time: _____ Standard	Calibration Responses (NTU)			
		PreCal	PostCal	ReCal-1	ReCal-2
(Circulator ON)	DIW or Air	_____	_____	_____	_____
	20 or _____	_____	_____	_____	_____
Check Std	5 or _____ read only (must be 3.75 to 6.25 or $\pm(5\%+1\text{NTU})$)	_____	_____	_____	_____

Time Check- Hydrolab ____:____:____ Watch ____:____:____ Cleaned sensor: Yes or No
Created New File: E-KWT03-_____ IBP = _____ V Battery used up ____/____/03
Programmed to start at _____ hrs on ____/____/03 at 2-min. intervals. (start times at 00, 10, 20, 30, 40, 50)
Data Terminal Cap: Silicone applied: Y / N by _____ Cap burped: Y / N by _____

Replace batteries when voltage is less than 9.7 volts. Complete some items by reading File Status.
Notes/Comments/Maintenance (Identify which Hydrolab): Collected Side-By-Side at: _____ hrs

Weather, Sea State, Currents and Other Observations

Weather Conditions: _____
Wind Direction: N NE E SE S SW W NW Wind Conditions: Calm Slight Breezy Strong
Sea State: Calm Slight Rough Very Rough Approx. Wave Height: _____ ft
Tidal Stage: Falling Slack Low Rising Slack High
Water Mass Boundary Present: Y / N _____
Surface Current Direction (flowing to): _____ and Speed: _____ mph

Current Monitoring Buoy: DGPS Serial No. _____ Track ID: _____
Time deployed _____ hrs, Time retrieved _____ hrs Nominal depth to drum top: _____ ft
Obvious Cross Wind or Currents: Y / N _____

Recent Ship Traffic: Y / N _____

Other Observations: Removed pipes, no hydrolab (retrieved 10/28)
GPS Kw-9 → 10/29/31 0830

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E-KWT03-

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Project: PPB/COE - Key West Background Turbidity
Project Number: 03-7333-03
Field Team Members: CRF/EAH/MD
Calibration Date: X 10/27/03

Retrieved HYDROLAB # 37534 from Station E-KWT03-9 at 1620hrs on 10/27/03.

Downloaded File: E-KWT03-9-102403 Checked file content: Y or N Backed up file: Y or N
Many power failures Floppy Failed

~~HYDROLAB # 37534 Deployed at Station E-KWT03-9 at hrs on 10/27/03.~~

Turbidity Calibration	Time: <u> </u> Standard	Calibration Responses (NTU)			
		PreCal	PostCal	ReCal-1	ReCal-2
(Circulator ON)	<u>DIW</u> or Air	<u>2.2</u>	<u>Did Not Redeploy Too Many Power Losses</u>	<u> </u>	<u> </u>
	<u>20</u> or <u> </u>	<u>19.6</u>		<u> </u>	<u> </u>
Check Std	<u>5</u> or <u> </u> read only (must be 3.75 to 6.25 or $\pm(5\%+1\text{NTU})$)	<u>3.5</u> <u>48.4</u>		<u> </u>	<u> </u>

Time Check- Hydrolab : : Watch : : Cleaned sensor: Yes or No
Created New File: E-KWT03-9-102703 IBP = 9.9 V Battery used up / /03
Programmed to start at hrs on 10/27/03 at 2-min. intervals. (start times at 00, 10, 20, 30, 40, 50)
Data Terminal Cap: Silicone applied: Y/N by EAH Cap burped: Y/N by EAH

Replace batteries when voltage is less than 9.7 volts. Complete some items by reading File Status.
Notes/Comments/Maintenance (Identify which Hydrolab): Collected Side-By-Side at: hrs

Weather, Sea State, Currents and Other Observations

Weather Conditions: Overcast
Wind Direction: N NE E SE S SW W NW Wind Conditions: Calm Slight Breezy Strong
Sea State: Calm Slight Rough Very Rough Approx. Wave Height: 1-2 ft
Tidal Stage: Falling Slack Low Rising Slack High
Water Mass Boundary Present: Y/N
Surface Current Direction (flowing to): NW and Speed: mph

Current Monitoring Buoy: DGPS Serial No. Track ID:
Time deployed hrs, Time retrieved hrs Nominal depth to drum top: ft
Obvious Cross Wind or Currents: Y/N

Recent Ship Traffic Y/N

Other Observations: Too rough to retrieve - until later
Added padding. Many power losses during calibration

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E-KWT03-_____

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Project: PPB/COE - Key West Background Turbidity
Project Number: 03-7333-03
Field Team Members: CRF/EAH/MGD
Calibration Date: 10/24/03

Retrieved HYDROLAB # 3734 from Station E-KWT03-9 at 0922 hrs on 10/24/03.

Downloaded File: E-KWT03-9-102203 Checked file content: ☒ Y or ☐ N Backed up file: ☒ Y or ☐ N
Noted power losses

HYDROLAB # 37534 Deployed at Station E-KWT03-9 at 1003 hrs on 10/24/03.

Turbidity Calibration (Circulator ON)	Time: 0951 Standard DIW or Air 20 or _____ 5 or _____ read only	Calibration Responses (NTU)			
		PreCal	PostCal	ReCal-1	ReCal-2
		0.0	0.0		
		17.8	18.9		
		4.0	4.4		
Check Std		50.4	49.7		
Slope Cal 50	(must be 3.75 to 6.25 or $\pm(5\%+1\text{NTU})$)				

Time Check- Hydrolab 09:35:10 Watch 09:35:17 Cleaned sensor: ☒ Yes or ☐ No

Created New File: E-KWT03-9-102403 IBP = 10.2 V Battery used up 11/10/03

Programmed to start at 1010 hrs on 10/24/03 at 2-min. intervals. (start times at 00, 10, 20, 30, 40, 50)

Data Terminal Cap: Silicone applied: ☒ Y / ☐ N by EAH Cap burped: ☒ Y / ☐ N by EAH

Replace batteries when voltage is less than 9.7 volts. Complete some items by reading File Status.
Notes/Comments/Maintenance (Identify which Hydrolab): Collected Side-By-Side at: _____ hrs

Weather, Sea State, Currents and Other Observations

Weather Conditions: Sunny

Wind Direction: N NE E SE S SW W NW Wind Conditions: Calm ☒ Slight ☐ Breezy ☐ Strong

Sea State: ☒ Calm ☐ Slight ☐ Rough ☐ Very Rough Approx. Wave Height: < 1 ft

Tidal Stage: Falling Slack Low Rising Slack High GPS

Water Mass Boundary Present: Y ☒ N ☐

Surface Current Direction (flowing to): W and Speed: _____ mph

Current Monitoring Buoy: DGPS Serial No. _____ Track ID: _____

Time deployed 0918 hrs, Time retrieved 1006 hrs Nominal depth to drum top: 10 ft

Obvious Cross Wind or Currents: Y ☒ N ☐

Recent Ship Traffic: Y ☒ N ☐

Other Observations: put thin coating of silicone grease on batteries

Key West Background Turbidity Field Sheet Station(s) E-KWT03-09

E-KWT03-09

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Phone: 352/372-1500

Project: PPB/COE - Key West Background Turbidity
Project Number: 03-7333-03
Field Team Members: CRF, EAH, MGD
Calibration Date: 10/22/03

Retrieved HYDROLAB # 37534 from Station E-KWT03-09 at 1023 hrs on 10/22/03.
Downloaded File: E-KWT03-10-22-03 Checked file content: Y or N Backed up file: Y or N

HYDROLAB # 37534 Deployed at Station E-KWT03-09 at _____ hrs on 10/22/03.

<u>Turbidity</u>	Time: <u>1100</u>	Calibration Responses (NTU)			
<u>Calibration</u>	Standard	PreCal	PostCal	ReCal-1	ReCal-2
(Circulator ON)	<u>DIW</u> or Air	<u>3.0</u>	<u>0.0</u>	<u>Failed QC Criterion</u>	
	<u>20</u> or _____	<u>20.5</u>	<u>16.8</u>		
Check Std	<u>5</u> or _____ read only	<u>4.1</u>	<u>2.3</u>		
<u>50 slope std</u>	(must be 3.75 to 6.25 or $\pm(5\%+1NTU)$)	<u>51.7</u>	<u>49.8</u>	<u>Calibration failed between 49.5 and 49.6</u>	

Time Check- Hydrolab 11:14:40 Watch 11:14:45 Cleaned sensor: Yes or No

Created New File: E-KWT03-09-10-22-03 IBP = 10.5 V Battery used up 11/08/03

Programmed to start at 1120 hrs on 10/22/03 at 2-min. intervals. (start times at 00, 10, 20, 30, 40, 50)

Data Terminal Cap: Silicone applied: Y/N by EAH Cap burped: Y/N by EAH

Replace batteries when voltage is less than 9.7 volts. Complete some items by reading File Status.
Notes/Comments/Maintenance (Identify which Hydrolab): Collected Side-By-Side at: _____ hrs

Weather, Sea State, Currents and Other Observations

Weather Conditions: Partly cloudy

Wind Direction: N NE E SE S SW W NW Wind Conditions: Calm Slight Breezy Strong

Sea State: Calm Slight Rough Very Rough Approx. Wave Height: 1 ft

Tidal Stage: Falling Slack Low Rising Slack High

Water Mass Boundary Present: Y/N CRF 10/22/03

Surface Current Direction (flowing to): NS and Speed: _____ mph

Current Monitoring Buoy: DGPS Serial No. _____ Track ID: _____

Time deployed _____ hrs, Time retrieved _____ hrs Nominal depth to drum top: _____ ft

Obvious Cross Wind or Currents: Y/N

Recent Ship Traffic: Y/N

Other Observations: _____

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Project: PPB/COE - Key West Background Turbidity
Project Number: 03-7333-03
Field Team Members: CRF/TWM/MGD
Calibration Date: 10/20/03

Retrieved HYDROLAB # 37534 from Station E-KWT03-9 at 0843 hrs on 10/20/03.
Downloaded File: E-KWT03-9-101803 Checked file content: ☒ Y or ☐ N Backed up file: ☒ Y or ☐ N

HYDROLAB # 37534 Deployed at Station E-KWT03-9 at 1007 hrs on 10/20/03.

Turbidity Calibration (Circulator ON)	Time: 0856 Standard DIW or Air 20 or 5 or read only (must be 3.75 to 6.25 or $\pm(5\%+1\text{NTU})$)	Calibration Responses (NTU)			
		PreCal	PostCal	ReCal-1	ReCal-2
		0.0	0.0	would Not Calibrate to	
		17.1	17.5*	2.0 NTUs even after	
Check Std		4.8	5.1	"Reset" - calibrated to 18.5	

changed batteries

Time Check- Hydrolab 09:04:16 Watch 09:04:30 → Retrieved @ 9.1V
Cleaned sensor: ☒ Yes or ☐ No
Created New File: E-KWT03-9-102003 IBP = 12.1 V Battery used up 11/14/03
Programmed to start at 1010 hrs on 10/20/03 at 2-min. intervals. (start times at 00, 10, 20, 30, 40, 50)
Data Terminal Cap: Silicone applied: ☒ Y / ☐ N by TWM Cap burped: ☒ Y / ☐ N by TWM

Replace batteries when voltage is less than 9.7 volts. Complete some items by reading File Status.
Notes/Comments/Maintenance (Identify which Hydrolab): Collected Side-By-Side at: _____ hrs

Weather, Sea State, Currents and Other Observations

Weather Conditions: slightly cloudy
Wind Direction: N ☒ NE ☐ E SE ☐ S SW ☐ W NW Wind Conditions: Calm Slight ☒ Breezy ☐ Strong
Sea State: Calm ☒ Slight ☐ Rough ☐ Very Rough Approx. Wave Height: ~1 ft
Tidal Stage: ☒ Falling ☐ Slack Low ☐ Rising ☐ Slack High
Water Mass Boundary Present: Y ☒ N ☐
Surface Current Direction (flowing to): S and Speed: _____ mph

Current Monitoring Buoy: DGPS Serial No. _____ Track ID: _____
Time deployed _____ hrs, Time retrieved _____ hrs Nominal depth to drum top: _____ ft
Obvious Cross Wind or Currents: Y / ☒ N

Recent Ship Traffic: Y / ☒ N

Other Observations: _____

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E-KWT03-9

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Project: PPB/COE - Key West Background Turbidity
Project Number: 03-7333-03
Field Team Members: JAC/Twm (m6D)
Calibration Date: 10/18/03

Retrieved HYDROLAB # 37534 from Station E-KWT03-9 at 9:25 hrs on 10/18/03.
Downloaded Filename: E-KWT03-9-101503 Checked file content: Y or N Backed up file: Y or N

HYDROLAB # 37534 Deployed at Station E-KWT03-9 at 1035 hrs on 10/18/03.

<u>Turbidity</u>	Time: <u>0950</u>	<u>Calibration Responses (NTU)</u>			
<u>Calibration</u>	Standard	PreCal	PostCal	ReCal-1	ReCal-2
(Circulator ON)	DIW or Air	<u>0.3</u>	<u>0.0</u>	<u>0.0</u>	
	50 or <u>20</u>	<u>20.9</u>	<u>20.2</u>		
Check Std	5 or _____ read only	<u>4.8</u>	<u>5.7</u>		
(must be 3.75 to 6.25 or ±(5%+1NTU))					

Time Check- Hydrolab GPS: _____ Watch _____: _____: _____ Cleaned sensor: Yes or No
Created New File: E-KWT03-9-101803 IBP = 9.9 V Battery used up 10/31/03 51%
Programmed to start at 1040 hrs on 10/18/03 at 2-min. intervals. (start times at 00, 10, 20, 30, 40, 50)
Data Terminal Cap: Silicone applied: Y or N by Twm Cap burped: Y or N by Twm

Replace batteries when voltage is less than 9.7 volts. Complete some items by reading File Status.
Notes/Comments/Maintenance (Identify which Hydrolab): Collected Side-By-Side at: _____ hrs

Weather, Sea State, Currents and Other Observations

Weather Conditions: BREEZY CLEAR
Wind Direction: N NE E SE S SW W NW Wind Conditions: Calm Slight Breezy Strong
Sea State: Calm Slight Rough Very Rough Approx. Wave Height: 2 ft
Tidal Stage: Falling Slack Low Rising Slack High
Water Mass Boundary Present: Y or N _____
Surface Current Direction (flowing to): _____ and Speed: _____ mph

Current Monitoring Buoy: DGPS Serial No. _____ Track ID: _____
Time deployed _____ hrs, Time retrieved _____ hrs Nominal depth to drum top: _____ ft
Obvious Cross Wind or Currents: Y or N _____

Recent Ship Traffic: Y or N CRUISE SHIP IN 9:15
2 NAVY SHIPS EARLIER

Other Observations: _____

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Project: PPB/COE - Key West Background Turbidity
Project Number: 03-7333-03
Field Team Members: SAC, TWM, MGD
Calibration Date: 10/15/03

Retrieved HYDROLAB # 37534 from Station E-KWT03-9 at 950 hrs on 10/15/03.
Downloaded Filename: E-KWT03-9-101303 Checked file content: Y or N Backed up file: Y or N

HYDROLAB # 37534 Deployed at Station E-KWT03-9 at 1045 hrs on 10/15/03.

Turbidity Calibration	Time: <u>1021</u>	Calibration Responses (NTU)				
		Standard	PreCal	PostCal	ReCal-1	ReCal-2
(Circulator ON)	DIW or Air	<u>0.0</u>	<u>0.0</u>	<u>0.5</u>		
	50 or <u>20</u>	<u>19.6</u>	<u>18.6</u>	<u>19.3</u>	<u>calibrated</u>	<u>completed</u>
Check Std	5 or <u> </u> read only (must be 3.75 to 6.25 or $\pm(5\%+1\text{NTU})$)	<u>4.1-4.7</u>	<u>4.8</u>			

Time Check- Hydrolab AS : Watch : : Cleaned sensor: Yes or No
Created New File: E-KWT03-9-101503 IBP = 10.5 V Battery used up 10/23/03 46%
Programmed to start at 1050 hrs on 10/15/03 at 2-min. intervals. (start times at 00, 10, 20, 30, 40, 50)
Data Terminal Cap: Silicone applied: Y/N by TWM Cap burped: Y/N by TWM

Replace batteries when voltage is less than 9.7 volts. Complete some items by reading File Status.
Notes/Comments/Maintenance (Identify which Hydrolab): Collected Side-By-Side at: hrs

Weather, Sea State, Currents and Other Observations

Weather Conditions: Cloudy windy
Wind Direction: N NE E SE S SW W NW Wind Conditions: Calm Slight Breezy Strong
Sea State: Calm Slight Rough Very Rough Approx. Wave Height: 1-2 ft
Tidal Stage: Falling Slack Low Rising Slack High
Water Mass Boundary Present: Y/N
Surface Current Direction (flowing to): and Speed: mph

Current Monitoring Buoy: DGPS Serial No. Track ID:
Time deployed hrs, Time retrieved hrs Nominal depth to drum top: ft
Obvious Cross Wind or Currents: Y/N

Recent Ship Traffic: Y/N

Other Observations:

Key West Background Turbidity Field Sheet Station(s) E-KWT03-9

E-KWT03-9

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Project: PPB/COE - Key West Background Turbidity
Project Number: 03-7333-03
Field Team Members: TFB, ONH, SAC
Calibration Date: 10/13/03

Retrieved HYDROLAB # 41154 from Station E-KWT03-9 at 1112 hrs on 10/13/03.

Downloaded Filename: E-KWT03-6-101103 Checked file content (Y) or N Backed up file: (Y) or N
→ CHANGED TO STA 9 NAME

HYDROLAB # 37534 41154 Deployed at Station E-KWT03-9 at 1153 hrs on 10/13/03.

<u>Turbidity</u>	Time: <u>1130</u>	<u>Calibration Responses (NTU)</u>			
<u>Calibration</u>	Standard	PreCal	PostCal	ReCal-1	ReCal-2
(Circulator ON)	<u>DIW</u> or Air	<div>NEW DEPLOYMENT</div>	<u>0.0</u>	<u>0.0</u>	
	50 or <u>20</u>		<u>20.1</u>		
Check Std	5 or <u>4.8</u> read only		<u>4.8</u>		
(must be 3.75 to 6.25 or ±(5%+1NTU))					

Time Check- Hydrolab GPS Set Watch : : Cleaned sensor: (Yes) or No
Created New File: E-KWT03-9-101303 IBP = 11.1 V Battery used up 11/03/03. 81%
Programmed to start at 1200 hrs on 10/13/03 at 2-min. intervals. (start times at 00, 10, 20, 30, 40, 50)
Data Terminal Cap: Silicone applied: (Y) N by TFB Cap burped: (Y) N by TFB

Replace batteries when voltage is less than 9.7 volts. Complete some items by reading File Status.
Notes/Comments/Maintenance (Identify which Hydrolab): Collected Side-By-Side at: NA hrs

Weather, Sea State, Currents and Other Observations

Weather Conditions: clear
Wind Direction: N NE E (SE) S SW W NW Wind Conditions: (Calm) Slight Breezy Strong
Sea State: (Calm) Slight Rough Very Rough Approx. Wave Height: 4 ft
Tidal Stage: Falling Slack Low (Rising) Slack High
Water Mass Boundary Present: Y / N
Surface Current Direction (flowing to): N and Speed: 1 mph

Current Monitoring Buoy: DGPS Serial No. Track ID:
Time deployed hrs, Time retrieved hrs Nominal depth to drum top: ft
Obvious Cross Wind or Currents: Y / N

Recent Ship Traffic: Y / N

Other Observations: REMOVED HL FROM SERVICE - BAD DATA

Key West Background Turbidity Field Sheet Station(s) E-KWT03-9

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Project: PPB/COE - Key West Background Turbidity
Project Number: 03-7333-03
Field Team Members: TFB, ONH
Calibration Date: 10/11/03

E-KWT03-9

Retrieved HYDROLAB # _____ from Station E-KWT03- at _____ hrs on ____/____/03.
Downloaded Filename: _____ Checked file content: Y or N Backed up file: Y or N

HYDROLAB # 41154 Deployed at Station E-KWT03-9 at ? hrs on 10/11/03.

Turbidity Calibration (Circulator ON)	Time: <u>1110</u> Standard DIW or Air 50 or <u>20</u> Check Std 5 or _____ read only (must be 3.75 to 6.25 or $\pm(5\%+1\text{NTU})$)	Calibration Responses (NTU)			
		PreCal	PostCal	ReCal-1	ReCal-2
			<u>0.0</u>	<u>0.0</u>	
			<u>20.2</u>		
			<u>5.2-5.6</u>		

Time Check- Hydrolab GPS ✓ Watch ____:____:____ Cleaned sensor: Yes or No
Created New File: E-KWT03-6-101103 IBP = 11.2 V Battery used up 11/2/03.
Programmed to start at 1130 hrs on 10/11/03 at 2-min. intervals. (start times at 00, 10, 20, 30, 40, 50)
Data Terminal Cap: Silicone applied: Y/N by TFB Cap burped: Y/N by TFB

Replace batteries when voltage is less than 9.7 volts. Complete some items by reading File Status.
Notes/Comments/Maintenance (Identify which Hydrolab): Collected Side-By-Side at: _____ hrs

Weather, Sea State, Currents and Other Observations

Weather Conditions: PARTLY CLOUDY & WARM
Wind Direction: N NE E SE S SW W NW Wind Conditions: Calm Slight Breezy Strong
Sea State: Calm Slight Rough Very Rough Approx. Wave Height: 1-2 ft
Tidal Stage: Falling Slack Low Rising Slack High
Water Mass Boundary Present: Y/N
Surface Current Direction (flowing to): ? and Speed: ? mph

Current Monitoring Buoy: DGPS Serial No. _____ Track ID: _____
Time deployed _____ hrs, Time retrieved _____ hrs Nominal depth to drum top: _____ ft
Obvious Cross Wind or Currents: Y/N

Recent Ship Traffic: Y/N

Other Observations: DEPLOYED HL PROGRAMMED FOR STA 6.50F
WAS NOT DEPLOYED THERE. RENAME FILE WHEN RETRIEVED

NEW
HL FROM
FACTORY
DEPLOYED